REMARKS

The applicants note with appreciation the acknowledgement of the claim for priority under section 119 and the notice that all of the certified copies of the priority documents have been received.

The applicants acknowledge and appreciate receiving initialed copies of the forms PTO-1449 that were filed on 25 March 2004 and 16 December 2004.

Claims 1-3, 6, and 7 are pending. Claims 4 and 5 have been canceled. Claims 6 and 7 are new. The applicants respectfully request reconsideration and allowance of this application in view of the above amendments and the following remarks.

The title has been amended as suggested by the examiner, to be more descriptive.

Claim 1 was objected to for the phrase "direction of the electric field." This has been changed to "direction of the bias magnetic field." Further, to be consistent, "magnetic field" has been changed to "bias magnetic field" throughout claim 1.

Claim 1 was further objected to because of the lack of spacing between words. This is a printing issue, which has been corrected by the reprinting of the claims in this amendment.

Claims 1-5 were rejected under 35 USC 102(b) as being anticipated by the patent to Uenoyama. Claims 4 and 5 have been canceled and will not be discussed. As for claims 1-3, the applicants respectfully request that this rejection be withdrawn for the following reasons.

Claim 1 has been amended to recite features of the embodiment shown in Figs. 1 -2 in which each of the first and second magneto-resistive bridges (11, 12) comprises four radially disposed magneto-resistive elements. Two confronting magneto-resistive elements of the plurality of magneto-resistive elements are respectively form a pair of magneto-resistive

elements, and a middle point potential of each pair of magneto-resistive elements is an output of each magneto-resistive bridge. Also, claim 1 requires that the magneto-resistive elements are disposed linearly. As a result of the claimed features, detection of the magnetic field is improved, and the deviation of the center value of the offset voltage of the bridge circuit, which causes data conversion errors, is eliminated.

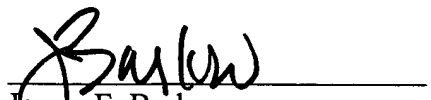
Claim 1 cannot be anticipated by the patent to Uenoyama at least for the reason that the magnetic-resistive elements of Uenoyama are not disposed linearly, as claimed. Therefore, this rejection should be withdrawn.

Claims 6 and 7 are new. Claims 6 and 7 depend on claim 1 and are thus considered to be patentable over Uenoyama for the reasons given above with respect to claim 1. Further, claims 6 and 7 further define the arrangement of the magneto-resistive elements and recite features not found in the patent to Uenoyama.

In view of the foregoing, the applicants respectfully submit that this application is in condition for allowance. A timely notice to that effect is respectfully requested. If questions relating to patentability remain, the examiner is invited to contact the undersigned by telephone.

Please charge any unforeseen fees that may be due to Deposit Account No. 50-1147.

Respectfully submitted,



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